

**DVI 201 A D** **NEW**

DVI Extender with Audio - Decora® Wallplate

**FEATURES**

- **Transmits single link DVI-D/HDMI and RS-232 signals over two CAT 5-type cables** — Standard UTP/STP cables provide an economical, easily installed cable solution.
- **Inputs: DVI-I connector, captive screw connector, and 3.5 mm stereo mini jack** - DVI 201 A D Tx
- **Outputs: DVI-I connector, captive screw connector, and 3.5 mm stereo mini jack** - DVI 201 A D Rx
- **Sends 720p, 1080i, and XGA (1024x768) signals over 200 feet (60 meters), 1080p/60 and 1920x1200 signals over 100 feet (30 meters)** — Utilization of STP - Shielded Twisted Pair cabling provides added protection from outside interference and increases overall signal transmission distances.
- **Transmits additional stereo audio signals** — The DVI 201 A D can send balanced or unbalanced stereo audio signals that accompany the video, over a separate audio cable.
- **Supports DDC and HDCP copy protection transmission** — The DVI 201 A D fully supports long distance transmission of DDC and HDCP signals.
- **Remote powering of transmitter or receiver** — Only one power supply is necessary to power both devices.
- **LED indicator for signal presence and power**
- **Bi-directional RS-232/IR pass-through** — Bi-directional RS-232 control or IR signals can be transmitted alongside the DVI or HDMI signals, so that the remote display can be controlled without the need for additional cabling.
- **Fully supports HDMI signals when used with optional Extron HDMI-DVI adapters** — Supports CEC Consumer Electronics Control signal transmission.
- **Compatible with standard DVI 201 transmitter and receiver** — Enables mixing and matching of desktop and wallplate transmitters and receivers to meet application requirements.
- **Mounts in an included Decora®-style wall plate** — The DVI 201 A D transmitter and receiver can be installed with a one-gang electrical box or Extron MR 100 Mud Ring, part # 70-519-12.
- **External universal power supply included, part # 70-055-01** — Provides worldwide power compatibility.

**DESCRIPTION**

The Extron **DVI 201 A D** is a Decora®-style transmitter and receiver set that enables DVI - Digital Visual Interface or HDMI - High Definition Multimedia Interface signals to be carried over distances significantly greater than the specified 5 meter (15 foot) limitation for standard DVI cables. In addition, it can accept and transmit stereo audio and RS-232 or IR signals. Linked together using two economical and integration friendly CAT 5, CAT 5e, CAT 6, or CAT 7 cables, the DVI 201 A D transmitter and receiver work together to send single link DVI-D or HDMI signals over 200 feet (60 meters) for HDTV and XGA (1024x768).

The DVI 201 A D supports the long distance transmission of HDTV signals with HDCP - High-bandwidth Digital Content Protection for copy protection of digital television broadcasts and high resolution digital video output from DTV tuners and DVRs, HD DVD, and Blu-ray Disc players. With the appropriate adapters from Extron, the DVI 201 A D is fully compatible with HDMI, a digital video, audio, and control standard for consumer A/V products.

Several features facilitate convenient, streamlined system integration. The DVI 201 A D supports transmission of balanced or unbalanced stereo audio signals, when a separate audio cable is installed between the transmitter and the receiver. RS-232 or IR signals from a third-party control system can also be transmitted over the same cabling as the DVI signals, for remote control of a projector or flat-panel display. An LED indicator provides a quick means of verifying power and signal presence. Furthermore, either the transmitter or receiver can be remotely powered over this cabling, so that external power is necessary for only one of the devices.

The DVI 201 A D transmitter and receiver are designed for wall-mounting with the included Decora-style wallplates. Both devices are also available separately, and may be matched with the standard desktop DVI 201 transmitter or receiver to suit the requirements of a specific application.

MODEL	VERSION DESCRIPTION	PART #
DVI 201 A D Tx/Rx	Transmitter/Receiver Set - Black.....	60-865-02
DVI 201 A D Tx/Rx	Transmitter/Receiver Set - White.....	60-865-03
DVI 201 A D Tx	Transmitter - Black.....	60-865-12
DVI 201 A D Tx	Transmitter - White.....	60-865-13
DVI 201 A D Rx	Receiver - Black.....	60-865-22
DVI 201 A D Rx	Receiver - White.....	60-865-23

Continued →

# DVI 201 A D

## SPECIFICATIONS

### VIDEO INPUT AND LOOP-THROUGH — TRANSMITTER

**Number/signal type**..... 1 DVI-D/HDMI\* input, 1920x1200 @ 60 Hz max. resolution  
1 DVI-D/HDMI\* local loop-through

**Connectors**

DVI 201 A D Tx/Rx ..... 2 DVI-I female

### INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

**Connectors** ..... (2) RJ-45 per unit for 2 CAT 5/5e/6 or STP (shielded twisted pair) cables connecting the transmitter and receiver

**Termination standards** ..... TIA/EIA T 568A or T 568B. Pin configurations for each standard are available in the manual's installation chapter.

**Bit rate** ..... 5 gigabits/second total (1.65 gigabits/second/color)

**Signal transmission distance**

1920x1200 @ 60 Hz (the highest resolution of the single link DVI standard)

STP (shielded twisted pair cable) ..... 125' (38 m)  
CAT 5/5e/6 cable ..... 100' (30 m)

HDTV (1080i or 720p) or 1024x768 @ 60 Hz

CAT 5/5e/6 or STP (shielded twisted pair) cable ..... 200' (60 m)

NOTE: The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphic card, and display used in the system.

### VIDEO OUTPUT — RECEIVER

**Number/signal type**..... 1 DVI-D/HDMI\*, 1920x1200 @ 60 Hz max. resolution

**Connectors**

DVI 201 A D Tx/Rx ..... 2 DVI-I female

### AUDIO

**Gain** ..... Unbalanced output: 0 dB; balanced output: +6 dB

**Frequency response** ..... 20 Hz to 20 kHz, ±0.05 dB

**THD + Noise** ..... 0.10% @ 1 kHz at nominal level

**S/N** ..... >85 dB at maximum output (unweighted)

**Stereo channel separation** ..... >86 dB @ 1 kHz

### AUDIO INPUT

**Number/signal type**

DVI 201 A D Tx ..... 1 stereo, unbalanced

DVI 201 A D Rx ..... 1 stereo, balanced/unbalanced

**Connectors**

DVI 201 A D Tx ..... (1) 3.5 mm mini audio jack (tip, ring, sleeve)

DVI 201 A D Rx ..... (1) 3.5 mm captive screw connector, 5 pole

**Impedance**

DVI 201 A D Tx ..... >10k ohms unbalanced, DC coupled

DVI 201 A D Rx ..... >18k ohms unbalanced, 14k ohms balanced, DC coupled

**Nominal level**

DVI 201 A D Tx ..... -10 dBV (316 mVrms)

DVI 201 A D Rx ..... +4 dBu (1.23 Vrms)

**Maximum level**

DVI 201 A D Tx ..... +11 dBu, unbalanced at 1% THD+N

DVI 201 A D Rx ..... +16.8 dBu, unbalanced at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV = 2 dBu

## AUDIO OUTPUT

**Number/signal type**

DVI 201 A D Tx ..... 1 stereo, balanced/unbalanced

DVI 201 A D Rx ..... 1 stereo, unbalanced

**Connectors**

DVI 201 A D Tx ..... (1) 3.5 mm captive screw connector, 5 pole

DVI 201 A D Rx ..... (1) 3.5 mm mini audio jack (tip, ring, sleeve)

**Impedance**

DVI 201 A D Tx ..... 50 ohms unbalanced, 100 ohms balanced

DVI 201 A D Rx ..... 50 ohms unbalanced

**Maximum level (Hi-Z)**

DVI 201 A D Tx ..... >+16 dBu, balanced or unbalanced at 1% THD+N

DVI 201 A D Rx ..... >+9.8 dBu, unbalanced at 1% THD+N

**Maximum level (600 ohm)**

DVI 201 A D Tx ..... >+9 dBm, balanced or unbalanced at 1% THD+N

DVI 201 A D Rx ..... >+6.8 dBm, unbalanced at 1% THD+N

## CONTROL/REMOTE — EXTERNAL DEVICE (PASS-THROUGH)

**Serial control port input**

Transmitter ..... RS-232 via (1) 3.5 mm, 3 pole captive screw connector

Receiver ..... 1 set of proprietary signals on a female RJ-45 jack

**Serial control port output**

Transmitter ..... 1 set of proprietary signals on a female RJ-45 jack

Receiver ..... RS-232 via a 3.5 mm, 3 pole captive screw connector

NOTE: Protocol is mirrored between the transmitter and the receiver.

**Serial control pin configurations**

..... Captive screw connectors: 1 = TX, 2 = RX, 3 = GND

## GENERAL

**External power supply** ..... 100 VAC to 240 VAC, 50/60 Hz, 6 W max., external; to 12 VDC, 1 A, regulated

**Power input requirements** ..... 12 VDC, 0.4 A for both transmitter and receiver

NOTE: Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver or transmitter on the other end of the CAT 5/5e/6 or STP (shielded twisted pair) cable.

**Temperature/humidity** ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing  
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

**Cooling** ..... Convection, unvented

**Enclosure type** ..... Metal

**Enclosure dimensions**

DVI 201 A D Tx/Rx  
Faceplate ..... 2.6" H\* x 1.3" W x 0.1" D (6.6 cm H\* x 3.3 cm W x 0.3 cm D)  
(Fits the opening in a 1 gang Decora faceplate. \*Height is 3.8" [9.7 cm] including mounting tabs.)

Buffer ..... 2.7" H x 1.8" W x 0.75" D\*  
(6.9 cm H x 4.6 cm W x 1.9 cm D\*)  
(\*Depth excludes connectors.)

**Product weight** ..... 0.5 lbs (0.3 kg)

**Shipping weight** ..... 3 lbs (2 kg)

**Vibration** ..... ISTA 1A in carton (International Safe Transit Association)

**Listings** ..... UL, CUL

**Compliances** ..... CE, FCC Class A\*\*, VCCI, AS/NZS, ICES

**MTBF** ..... 30,000 hours

**Warranty** ..... 3 years parts and labor

NOTE: \*An optional HDMI to DVI adapter is required if an HDMI signal is used. Also, an optional Extron HDMI-to-DVI adapter is required in order to transmit a CEC signal. \*\*FCC testing is conducted with STP (shielded twisted pair) cable. All nominal levels are at ±10%. Specifications are subject to change without notice.

